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TITLE : PIEZOELECTRIC CERAMIC ELEMENT AND PRODUCTION THEREOF

ABSTRACT : PROBLEM TO BE SOLVED: To enhance reliability by composing a protective film for drive electrode out of a plurality of resin films of polyparaxylene or a derivative thereof.

SOLUTION: A film composed of polyparaxylene or a derivative resin thereof is referred to parylene film and formed by so-called CVD employing diparaxylene dimmer or a derivative thereof as a deposition source. More specifically, diparaxylene dimmer is vaporized and thermally decomposed to generate stable diradical paraxylene monomer which is adsorbed onto a basic material and a film is formed through polymerization reaction. In particular, heat resistance is damaged if the first layer parylene film is too thick and pin holes are generated excessively if it is too thin. When high permeation parylene N is employed in the first layer (when diparaxylene dimmer is employed), a plurality of parylene films can be formed after a cover is bonded to a ceramic basis material on which an electrode film is formed. Consequently, performance is sustained by a thick adhesive layer and the entire parts can be protected.

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